

IAPI3 Rec'd PCT/PTO 25 SEP 2006

FORM PTO-1390 (Modified)  
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  
(REV 12-2004)

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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  | ATTORNEY'S DOCKET NUMBER<br><br><b>062800-0122</b>                     |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2005/005407   |  | INTERNATIONAL FILING DATE<br>03/24/2005                                |
| TITLE OF INVENTION<br>HEATER COIL FOR GAS SENSOR, DETECTION ELEMENT FOR GAS SENSOR, CONTACT COMBUSTION TYPE GAS SENSOR, AND METHOD FOR MANUFACTURING CONTACT COMBUSTION TYPE GAS SENSOR  |  | U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5)<br><b>10/594006</b> |
| APPLICANT(S) FOR DO/EO/US<br>Ikuo TAKAHASHI, Junji SATOH and Yoshirou HIRAI  |  | PRIORITY DATE CLAIMED<br>03/30/2004                                    |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.<br>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))<br><input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br><input type="checkbox"/> has been communicated by the International Bureau.<br><input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)<br>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<br><input checked="" type="checkbox"/> is attached hereto.<br><input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br><input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau).<br><input type="checkbox"/> have been communicated by the International Bureau.<br><input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br><input checked="" type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).<br>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). |  |  |
| Items 11 to 20 below concern other document(s) or information included:  |  |  |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input checked="" type="checkbox"/> A preliminary amendment.<br>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825<br>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).<br>20. <input type="checkbox"/> Other items or information:  |  |  |

FORM PTO-1390 (Modified)

|  |              |   |              |   |            |
|--|--------------|---|--------------|---|------------|
| U.S. APPLICATION NO. (If known, see 37 CFR. 1.5)<br><b>10/594006</b>   |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP2005/005407                            |              | ATTORNEY'S DOCKET NUMBER<br>062800-0122 |            |
| The following fees have been submitted:  |              |   |              |   |            |
| 21. <input checked="" type="checkbox"/> Basic national fee   |              | \$300   |              | \$ 300.00                               |            |
| 22. <input checked="" type="checkbox"/> Examination fee  |              |   |              |   |            |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)   |              | \$100   |              | \$ 200.00                               |            |
| All other situations   |              | \$200   |              |   |            |
| 23. <input checked="" type="checkbox"/> Search fee   |              |   |              |   |            |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority  |              | \$100   |              |   |            |
| International Search Report prepared and provided to the Office  |              | \$400   |              |   |            |
| All other situations   |              | \$500   |              | \$ 400.00                               |            |
| <b>TOTAL OF ABOVE 21, 22 and 23 =</b>  |              |   |              | <b>\$ 900.00</b>                        |            |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$ for each additional 50 sheets of paper or fraction thereof.  |              |   |              |   |            |
| Total Sheets   | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE         |   |            |
| 96 - 100 = 0   | /50 =        | 0   | x \$250.00   | \$ 0.00                                 |            |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e))  |              |   |              | \$ 0.00                                 |            |
| CLAIMS   |              | NUMBER FILED  | NUMBER EXTRA | RATE                                    | \$         |
| Total Claims   | 45 - 20 =    | 25  | x \$         | 50.00                                   | \$ 1250.00 |
| Independent Claims   | 9 - 3 =      | 6   | x \$         | 200.00                                  | \$ 1200.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |   | + \$         | 360.00                                  | \$         |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |              | <b>\$ 3350.00</b>                       |            |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |              | + \$ 0.00                               |            |
| <b>SUBTOTAL =</b>  |              |   |              | <b>\$ 3350.00</b>                       |            |
| Processing fee of 130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |              |   |              | \$                                      |            |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |              | <b>\$ 3350.00</b>                       |            |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 40.00 per property   |              |   |              | \$ 40.00                                |            |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |              | <b>\$ 3390.00</b>                       |            |
|  |              |   |              | Amount to be refunded:                  |            |
|  |              |   |              | charged:                                |            |
| <p>a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>19-0741</u> in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-0741</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charge to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO:</p> <p style="text-align: center;">Foley &amp; Lardner LLP<br/>Customer Number: 22428</p> |              |   |              |   |            |
|  |              |   |              | SIGNATURE                               |            |
|  |              |   |              | Glenn Law                               |            |
|  |              |   |              | NAME                                    |            |
|  |              |   |              | 34,371                                  |            |
|  |              |   |              | REGISTRATION NUMBER                     |            |